

**UPLINK POLL-BASED POWER SAVE DELIVERY METHOD IN A  
WIRELESS LOCAL AREA NETWORK FOR REAL TIME  
COMMUNICATION**

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**Abstract Of The Disclosure**

A mobile station (106) establishes a real time communication link via an access point (102) for carrying voice or other time-sensitive data. A WLAN subsystem (204) of the mobile station is normally kept in a low power state.

10 Upon initiating a communication link the mobile station signals to the access point that uplink poll-based power save delivery mode will be used (614), and the access point reserves resources to assure the necessary quality of service. The mobile station initiates a frame transaction by first powering up the WLAN subsystem (712), acquiring the WLAN channel (407), and transmitting a polling  
15 frame. Upon successful receipt of the polling frame the access point prepares to reply with a response frame at an unspecified time within service window, during which time the mobile station maintains the WLAN subsystem power up and ready to receive the response frame. Upon successful receipt of the response frame, the mobile station places the WLAN subsystem back into a low power  
20 state.